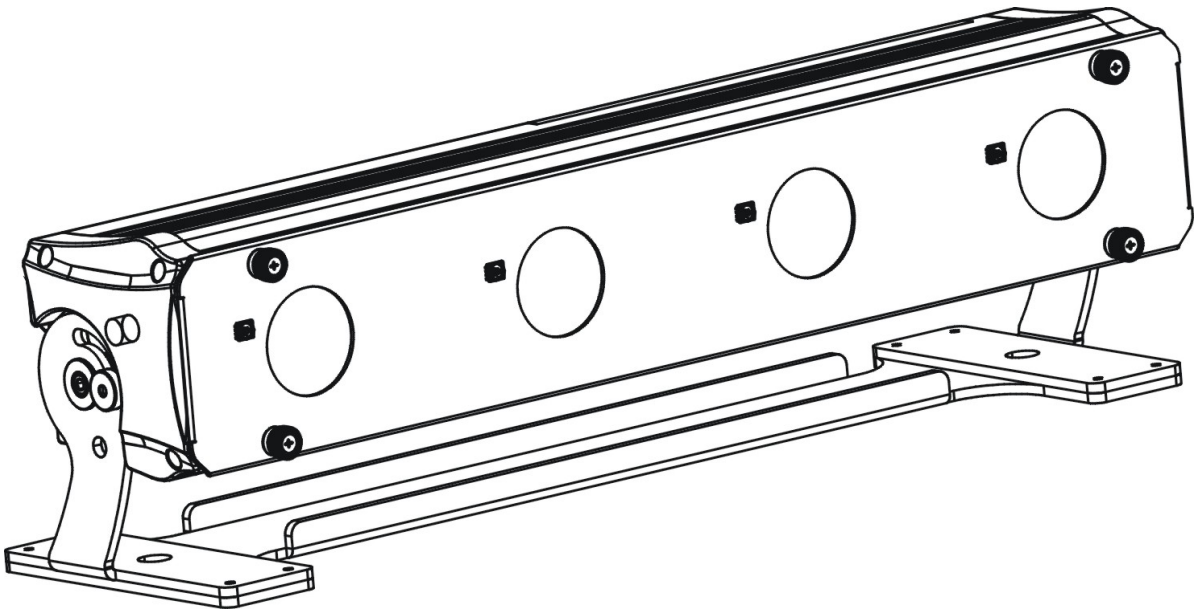

ELAR QUAD BAR™

User Manual 2.0

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1. GENERAL INFORMATION

INTRODUCTION

Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The **ELAR QUAD BAR™** has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as **"IP"** (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP65 rated lighting fixture such as the **ELAR QUAD BAR™** is one which has been designed and tested to protect against the ingress of dust (6) and high pressure water jets from any direction (5).

UNPACKING

Thank you for purchasing the **ELAR QUAD BAR™** by Elation Professional®. Every **ELAR QUAD BAR™** has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS

- (1) IP68 Rated Power Cable
- (1) 3-Pin XLR Cable
- (1) Omega Bracket & (8) Mounting Screws
- (1) Safety Cable
- Manual & Warranty Card

MANUAL UPDATES

Please check www.elationlighting.com for the latest revision/update of this manual.

CUSTOMER SUPPORT

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®. Service Hours are Monday through Friday 8:00 a.m. to 5:00 p.m. PST.

Voice: 323-582-3322 **Fax: 323-832-9142**

E-mail: support@elationlighting.com Forum: www.ElationLighting.com/forum

WARRANTY REGISTRATION

The **ELAR QUAD BAR™** carries a two year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support at 323-582-3322.

IMPORTANT NOTICE!

There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this fixture and/or the disregard of safety and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.

2. SAFETY INSTRUCTIONS

The **ELAR QUAD BAR™** is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

- For stage operation, follow the Mounting and Installation guide described in Chapter 6 of this manual. Operating the fixture without suited safety aids such as safety cables and/or clamps can increase the risk of damage and/or personal injury.
- Installation should only be performed by qualified and certified personnel.
- When mounting this fixture, use only the original rigging parts included with this fixture. Any structural modification will void the original manufactures warranty and may increase the risk of damage and/or personal injury.
- Those suffering from **EPILEPSY** should avoid looking directly into the light source of this unit at all times.
- Never look directly into the light source of this fixture. You risk injury to your retina, which may induce blindness.
- Do not attempt to operate this fixture if the power cord has become damaged or frayed. Be sure the power cord is never crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.
- This device falls under protection-class 1; therefore it is essential that this device be grounded properly. Only qualified personnel should perform all electrical connections. Be sure the available voltage matches the voltage requirements of this device.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.

3. GENERAL GUIDELINES

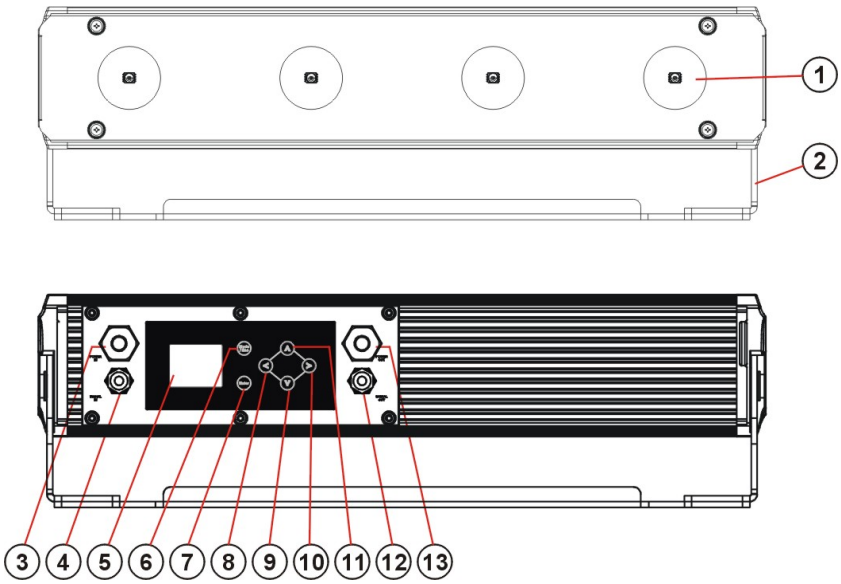
- **NEVER OPEN THIS FIXTURE WHILE IN USE!**
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- This fixture is a professional lighting effect designed for use on stage, in nightclubs, theatres, etc. Do not attempt installation and/or operation without proper knowledge of how to do so.
- Do not permit operation by persons who are not qualified for operating this type of theatrical fixture. Most damages are the result of operations by nonprofessionals.
- Consistent operational breaks may ensure the fixture will function properly for many years to come.
- Do not shake fixture, avoid brute force when installing and/or operating the device.
- Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the base of the fixture.
- Please use the original packaging and materials to transport the fixture in for service.

4. FEATURES

- 4 x 10W Cree Quad LEDs
- 100,000 Hours Rated LED Life*

  *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.
- IP65 Rated Die Cast Aluminium Body
- USITT DMX 512 with 4, 5, 8, 10, and 16 DMX Channel Operation
- Strobe-Effect with 1-18 flashes per second
- 0-100% Dimming and Blackout for all LEDs
- Excellent Color Mixing and Rainbow Effect
- Single Pixel Control Mode
- Flicker Free Operation for TV and Film
- Built In Color Macros, Auto & Manual Control
- Full Color LCD Menu Control Display And Touch-Panel
- Reversible Control Display Option (180º Flip)
- Power In/Out Linkable
- Holds Last State When Power Off
- Software Upload by Optional Accessory via DMX line

5. FIXTURE OVERVIEW



1: LED Array

2: Mounting Ears/Omega Bracket

3: Power IN

4: 3-Pin DMX IN

5: LCD Menu Control Display

6: MODE/ESC Button

7: ENTER Button

8: LEFT Button

9: DOWN Button

10: RIGHT Button

11: UP Button

12: 3-Pin DMX OUT

13: Power OUT

1. **LED Array –** Group of (4) LEDs
2. **Mounting Ears / Omega Bracket –** Used to mount fixture.
3. **Power In –** Power connection (powerCON) to power source.
4. **3-Pin DMX In –** Accepts incoming DMX signal via a male 3-pin XLR jack.
5. **LCD Menu Control Display –** Full color LCD animated menu display.
6. **MODE/ESC Button –** Used to access the menu functions and exit the current command.
7. **ENTER Button –** Used to enter into or lock a certain menu function.
8. **LEFT Button –** Used to toggle through the menu display.
9. **DOWN Button –** Used to toggle down or back through the menu functions and settings.
10. **RIGHT Button –** Used to toggle through the menu display.
11. **UP Button –** Used to toggle forward through the menu functions and settings.
12. **3-Pin DMX Out –** Used to send incoming DMX signal to the next fixture in the DMX chain via a female 3-pin XLR jack.
13. **Power Out –** Power connection to daisy chain to another unit.

6. MOUNTING AND INSTALLATION

CAUTION!

Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

CAUTION!

The electric connection must only be carried out by a qualified electrician.

☞ CAUTIONS

- The recommended temperature for this fixture is **-13°F to 113°F (-25°C to 45°C)**. Do not use the fixture under or above this temperature.

- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas were unauthorized personnel might reach the fixture.

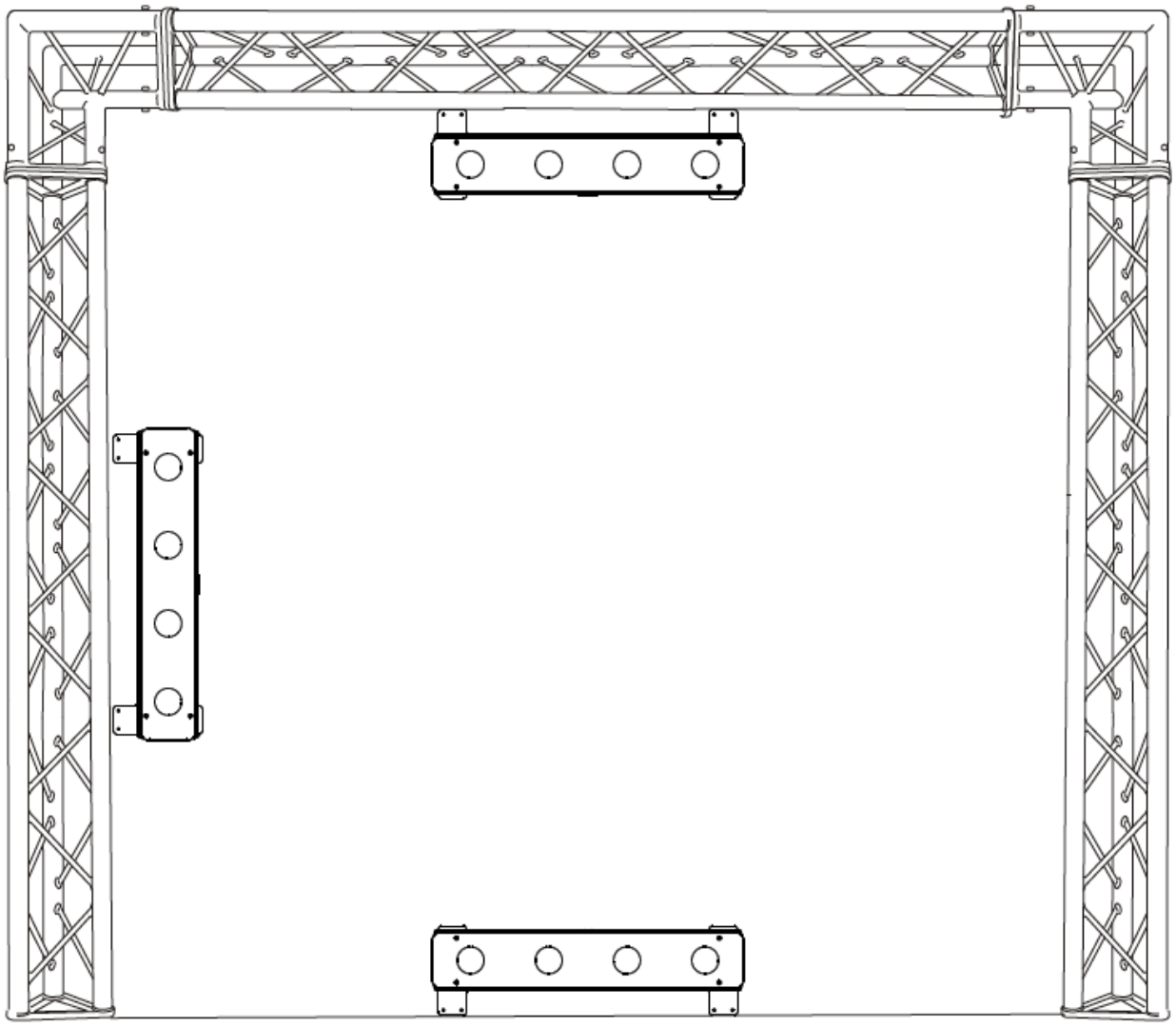
- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.
  (150* lbs / 680* kgs - *Includes Omega Bracket)

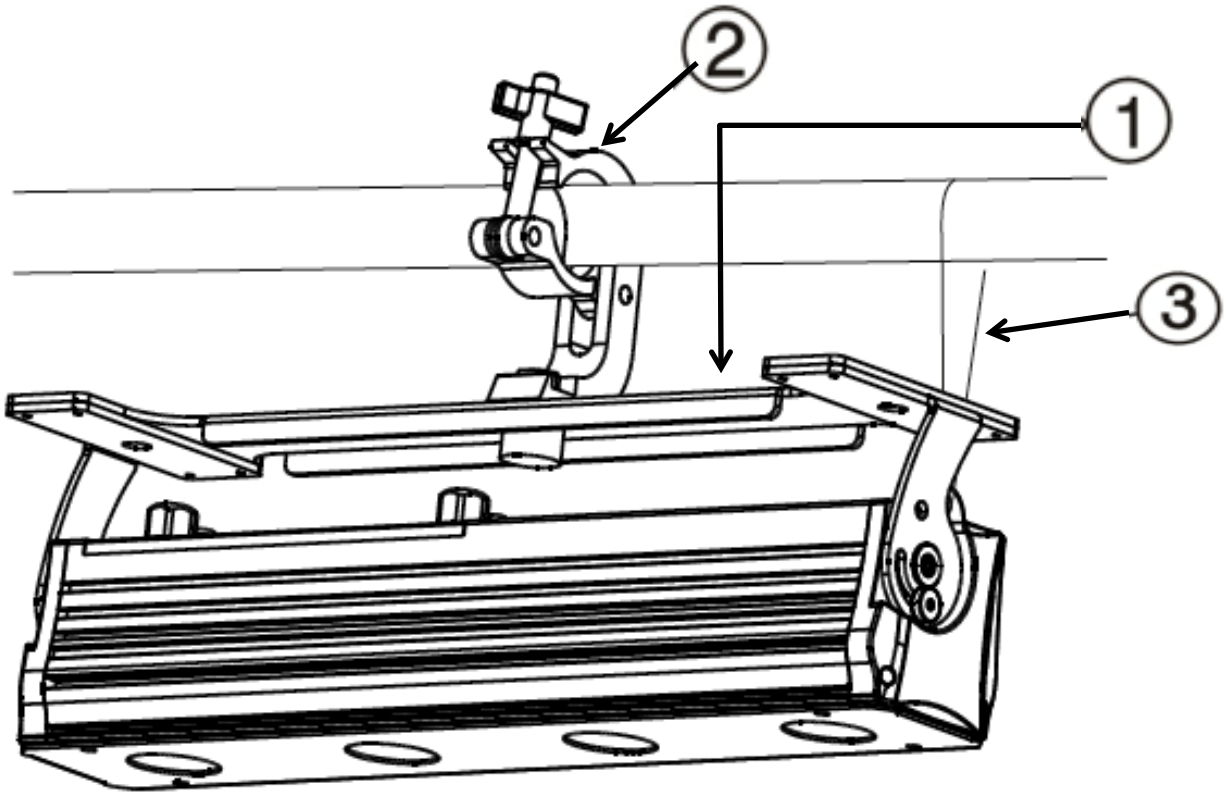
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

- Never stand directly below the device when mounting, removing or servicing the fixture.

MOUNTING POINTS

- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.
- Fixture is fully operational in any mounting position, hanging upside-down, side mounted, or on any flat level surface, and will remain steady no matter the angle of the fixture head.
- Be sure the fixture is kept at least 0.5m (1.5 feet) away from any flammable materials (decoration etc.).





(1) Omega Bracket & (8) Screws (included)

(2) Clamp (optional)

(3) Safety Cable (included)

INSTALLATION VIA OMEGA BRACKET

- Attach the included Omega Bracket to the fixture using included (8) small screws.
- Attach clamp to center Φ13 hole on the Omega Bracket.
- Pull the included Safety Cable through the hole on the side of the base and over the trussing system or a safe installation.

☞ **This step is a very important to ensure the fixture will not drop if the clamp fails.**

7. UNDERSTANDING DMX

DMX-512

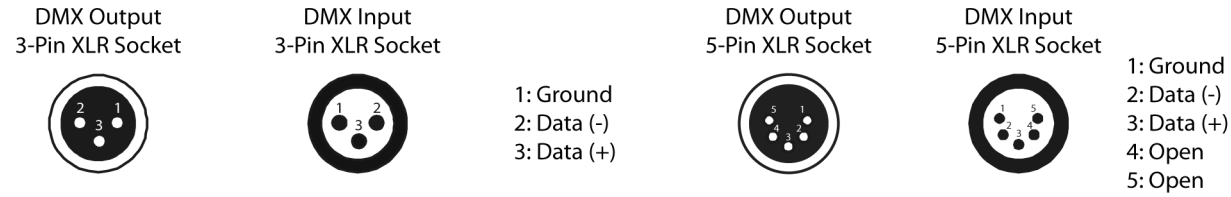
DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data “IN” and data “OUT” XLR terminals located on the fixtures (most controllers will only have output jacks).

DMX LINKING

To ensure proper DMX data transmission, always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a “Y” style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a starting DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The ELAR QUAD BAR™ can be controlled via DMX-512 protocol. The ELAR QUAD BAR™ is a 64-channel DMX fixture. The DMX address is set electronically using the controls on the LCD menu.

DATA CABLE (DMX Cable) REQUIREMENTS (For DMX and Master/Slave Operation)

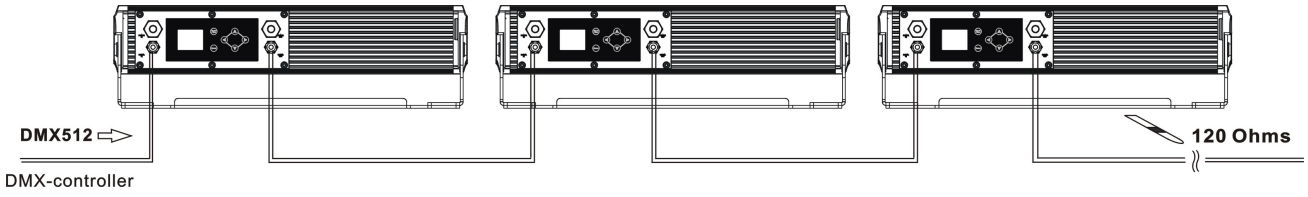
Your fixture and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (see figure below). If you are making your own cables, be sure to use two conductor, shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. Also, remember that a DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.



Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR outer casing. Grounding the shield could cause a short circuit and erratic behavior.

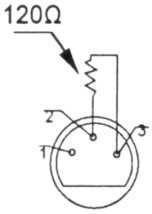
DMX-512 CONTROLLER CONNECTION

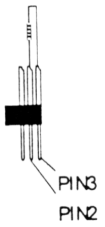
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the **ELAR QUAD BAR™** (Please refer to the diagram below.). You can chain multiple panels together through serial linking. The cable that should be used is two conductor, shielded DMX cable with XLR input and output connectors. Always be sure daisy chain your in and out data connections, never split or "Y" your DMX connections unless you are using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.



DMX-512 CONNECTION WITH DMX TERMINATOR

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a *line terminator (Elation part: DMX T PACK) will decrease the possibilities of erratic behavior.*





Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX CONNECTORS

Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

DMX ADDRESSING

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the back of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the **ELAR QUAD BAR™,** when in 16 channel mode (default can also be set to 4, 5, 8, 10, or 16), you should set the starting DMX address of the first unit to 1, the second unit to 17 (1 + 16), the third unit to 33 (17 + 16), the fourth unit to 49 (33 + 16) and so on.

Note: During start-up the **ELAR QUAD BAR™** will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show **"Addr=XXX" (XXX** representing the actual DMX address). If the fixture is not receiving a DMX signal the display will flash. If your fixture is connected to a DMX controller and the display is flashing (not receiving a DMX signal), please check the following:

- The 3-PIN or 5-PIN XLR input plug (cable with DMX signal from controller) is not connected or is not inserted completely into the DMX input jack of the fixture.
- The DMX controller is switched off or defective.
- The DMX cable or connector is defective.
- A DMX terminator has been inserted into the last fixture in your DMX chain.

8. FIXTURE MENU

ON-BOARD SYSTEM MENU

The **ELAR QUAD BAR™** comes with an easy to navigate system menu. The next section will detail the functions of each command in the system menu.

LCD CONTROL PANEL

The control panel (see image below) located on back of the fixture allows you to access the main menu and make all necessary adjustments to the **ELAR QUAD BAR™.** During normal operation, tapping the **MODE/ESC** button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the **UP, DOWN, RIGHT,** and **LEFT** buttons. Once you reach a field that requires adjusting, tap the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Tapping the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by tapping the **MODE/ESC** button.

FUNCTION	Set DMX Address DMX Value Slave Mode Auto Program	001~503 ALL…… Slave1, Slave2, Slave3 Master / Alone		DMX Address Setting DMX Value Display Slave Setting Auto Program
INFORMATION	Time Information	Current Time Total Run Time Last Run Time Timer Password Clear Last Run	XXXX(Hours) XXXX(Hours) XXXX(Hours) Password=XXX ON/**OFF**	Power On Running Time Fixture Running Time Fixture Last Times Clear Timer Password ***038*** Clear Fixture Last time
	Temperature Info	Head Temperature		Temperature In The Head
	Software Version	V2.0		Software Version Of Each IC
PERSONALITY	Status Settings	Address Via DMX No DMX Status	**ON**/OFF Close/**Hold**/Auto/Music	Address Via DMX Auto Run If No DMX
	Service Setting	Password RDM PID	Password=XXX **xxxxxx**	Service Password ***050*** RDM PID Code
	Display Setting	Shutoff Time Flip Display Key Lock Disp Flash	02~60m **05m** ON/**OFF** ON/**OFF** ON/**OFF**	Display Shut Off Time Display Reverse 180º Key Lock Display Flashes If No DMX
	Temperature C/F	**Fahrenheit** **Celsius**		Temperature switch Between °C or °F
	Initial Status	Strobe, Dimmer, Chase Effect, Chase Speed, Red (1-4), Green (1-4), Blue (1-4), White (1-4), Color Temp, Color Mode		Initial Effect Position
	Reset Default	ON/**OFF**		Restore Factory Settings
EFFECT ADJUST	Test Channel	Strobe, Dimmer, Chase Effect, Chase Speed, Red (1-4), Green (1-4), Blue (1-4), White (1-4), Color Temp, Color Mode		Test Function
	Manual Control	Strobe, Dimmer, Chase Effect, Chase Speed, Red (1-4), Green (1-4), Blue (1-4), White (1-4), Color Temp, Color Mode		Fine Adjustment Of The Functions

***Default Settings Shaded**

USER MODE SETTING	User Mode	**4CH Mode** 5CH Mode 8CH Mode 10CH Mode 16CH Mode User Mode A User Mode B User Mode C		Select DMX & User Modes
	Edit User Mode A Edit User Mode B Edit User Mode C	Max Channel, Strobe, Dimmer, Chase Effect, Chase Speed, Red (1-4), Green (1-4), Blue (1-4), White (1-4), Color Temp, Color Mode		Preset User Modes
EDIT PROGRAM	Select Program	Auto Pro Part1 = Program 1 ~ 10 **Program 1** Auto Pro Part2 = Program 1 ~ 10 **Program 2** Auto Pro Part3 = Program 1 ~ 10 **Program 3**		Select Programs To Be Run
	Edit Program	Program 1 ~ Program 10	Pro. Test, Step 01 – Step 64	Testing Program Program In Loop Save And Exit
	Edit Scenes	Scene 001 ~ Scene 250	Strobe, Dimmer, Chase Effect, Chase Speed, Red (1-4), Green (1-4), Blue (1-4), White (1-4), Color Temp, Color Mode, Fade Time, Scene Time, Input By Out	Save And Automatically Return Manual Scenes Edit
	Record Controller	XX ~ XX		Automatic Scenes Recorder

***Default Settings Shaded**

FUNCTION - Set DMX Address

Adjust the desired DMX address via the Control Panel.

1. Tap **MODE/ESC** to access the main menu and tap **ENTER**.
2. Tap the **UP/DOWN** until **"Set DMX Address"** is displayed and tap **ENTER**.
3. Current DMX address is displayed **(001-503)**, tap the **UP/DOWN** to select desired DMX address **(001-503)** and **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

FUNCTION - DMX Value

Display the DMX 512 value of each channel.

1. Tap **MODE/ESC** to access the main menu and tap **ENTER**.
2. Tap **UP/DOWN** until **"DMX Value"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired **"DMX Value"** and **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return the main menu.

FUNCTION - Slave Mode

Define the fixture as a slave.

1. Tap **MODE/ESC** to access the main menu and tap **ENTER**.
2. Tap **UP/DOWN** until **"Slave Mode"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("Slave1, Slave2, Slave3")** and tap **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

FUNCTION - Auto Program

Define the fixture mode **("Master" or "Alone")** for running Auto Programs. Select the desired internal programs under **"Select Program"**, set the number of steps under **"Edit Program"**, and edit the individual scenes under **"Edit Scenes"**.

1. Tap **MODE/ESC** to access the main menu and tap **ENTER**.
2. Tap **UP/DOWN** until **"Auto Program"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("Master"," Alone")** and tap **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Time Information - Current Time

Display the run time of the fixture from last power ON.

The counter is reset after each time the device is powered OFF.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** buttons until "**Time Information"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Current Time"** is displayed, tap **ENTER** and **"XXXXXh"** (Hours) is displayed.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Time Information - Total Run Time

Display the total running time of the fixture.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until "**Time Information"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Total Run Time"** is displayed, tap **ENTER** and **"XXXXXh"** (Hours) is displayed.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Time Information - Last Run Time

Display last the running time of the lamp.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until "**Time Information"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Last Run Time"** is displayed, tap **ENTER** and **"XXXXXh"** (Hours) is displayed.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Time Information - Timer Password

Display the timer password. **(038)**

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until "**Time Information"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Timer Password"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select 3-digit password and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Time Information - Clear Last Run

Clear the last run time of the fixture, default is **OFF**.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until "**Time Information"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Clear Last Run"** is displayed and tap **ENTER** to **Clear Last Run** time. **NOTE:** A correct password must be entered in the **"Timer Password"** menu in order to clear last run time.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Temperature Information - Head Temperature

Display the temperature of the fixture, default is **Celsius**.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** buttons until "**Temperature Info"** is displayed and tap **ENTER**.
3. Tap **ENTER** and **"XXX"** (degrees) °C/ °F is displayed.
4. Tap **MODE/ESC** to return to the main menu.

INFORMATION - Software Version

Display the software version of the fixture.

1. Tap **MODE/ESC** to access main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Information"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Software Version"** is displayed and tap **ENTER**.
3. The display will show **"VX.X"** (software version #)
4. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Status Settings - Address Via DMX

Adjust the desired DMX address via an external controller, default is **ON**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Status Settings"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Address Via DMX"** is displayed and tap **ENTER**.
5. Tap **UP/DOWN** to select desired mode **("ON" or "OFF")** and tap **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Status Settings - No DMX Status

Fixture runs in Auto Run if no DMX signal is detected. Options include **(Hold/Close Shutter/Music Control/Auto Program)**, default is **Hold**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Status Settings"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"No DMX Status"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select desired mode **(Hold/Close Shutter/Music Control/Auto Program)** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Service Setting - Password

The Password is **(050)**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Service Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Password"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select 3-digit password and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Service Setting - RDM PID

With this function you can call up various submenus via RDM.
This device is RDM ready. RDM stands for "remote device management" and makes remote control of devices connected to the DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol.

Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the fixture is installed in a remote area. RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends own packages in the DMX512 data feed and does not influence conventional devices.

If DMX splitters are used and RDM control is to be used, these splitters must support RDM. The number and type of RDM parameters depend on the RDM controller being used.

NOTE: A correct password must be entered in the **"Service Setting"** menu in order to access the **RDM PID** menu.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Service Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"RDM PID"** is displayed and tap **ENTER**.
4. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Display Setting – Shutoff Time

Shut off the Control Panel display after 02 to 60 minutes, default is **05** minutes.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Display Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Shutoff Time"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select time **(02-60)** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Display Setting – Display Reverse

Rotate (Flip) the Control Panel display by 180°, default is **OFF**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Display Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Display Reverse"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select desired mode **("ON" or "OFF")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY - Display Setting – Key Lock

Lock the Control Panel buttons automatically after exiting main menu for 15 seconds. Unlock by keeping the **MODE/ESC** button pressed for 3 seconds. Default is **OFF**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Display Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Key Lock"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select desired mode **("ON" or "OFF")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY – Display Setting - Disp Flash

Control Panel display will flash if no DMX is signal is detected, default is **OFF**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Display Setting"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** until **"Disp Flash"** is displayed and tap **ENTER**.
4. Tap **UP/DOWN** to select desired mode **("ON" or "OFF")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY – Temperature C/F

Display the temperature in Celsius or Fahrenheit, default is **Fahrenheit**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Temperature C/F"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("Celsius" or "Fahrenheit")** and tap **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

PERSONALITY – Initial Status

Display the initial effect position for DMX functions.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Initial Status"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired function **("Strobe", "Dimmer", "Chase Effect", "Chase Speed", "Red(1-16)", "Green(1-16)", "Blue(1-16)", "White(1-16)", "Color Temp", "Color Mode")** and tap **ENTER** to confirm selection
4. Tap **UP** to select desired position **("0-255")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

PERSONALITY – Reset Default

Restore factory settings function **(ON** or **OFF)**, the default is **OFF**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Personality"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Reset Default"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("ON" or "OFF")** and tap **ENTER** to confirm selection.

EFFECT ADJUST – Test Channel

Test each DMX function.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Effect Adjust"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Test Channel"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired function **("Strobe", "Dimmer", "Chase Effect", "Chase Speed", "Red(1-16)", "Green(1-16)", "Blue(1-16)", "White(1-16)", "Color Temp", "Color Mode")** and tap **ENTER** to confirm selection
4. Tap **MODE/ESC** to return to the main menu.

EFFECT ADJUST – Manual Control

Adjust the lamp more easily. All effects will be canceled, the shutter opens and the dimmer intensity will be set to 100 %. With the individual functions, you can focus the light on a flat surface (wall) and perform the fine lamp adjustment.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Effect Adjust"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Manual Control"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired function **("Strobe", "Dimmer", "Chase Effect", "Chase Speed", "Red(1-16)", "Green(1-16)", "Blue(1-16)", "White(1-16)", "Color Temp", "Color Mode")** and tap **ENTER** to confirm selection.
4. Tap **UP** to select desired value **("0-255")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

USER MODE SETTING

Select different channels list by different sequence.

For example, after the user enter this manual, if select Auto Program = CH 22, means in this User's mode, the "Dimmer" is in Channel 16.

USER MODE SETTING – User Mode

Create user defined channel orders, the default is **4CH Mode**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"User Mode Set"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"User Mode"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("4CH Mode", "5CH Mode", "8CH Mode", "10CH Mode", "16CH Mode", "User Mode C", "User Mode B", "User Mode A")** and tap **ENTER** to confirm selection.
4. Tap **MODE/ESC** to return to the main menu.

USER MODE SETTING – Edit User Mode (A, B, C)

Adjust the rest user defined channel order.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"User Mode Set"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** to select desired user (**"Edit User Mode A", "Edit User Mode B", "Edit User Mode C")** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired mode **("Max Channel", "Strobe", "Dimmer", "Chase Effect", "Chase Speed", "Red(1-4)", "Green(1-4)", "Blue(1-4)", "White(1-4)", "Color Temp", "Color Mode")** and tap **ENTER** to confirm selection.
4. Tap **UP/DOWN** to select desired channel and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

EDIT PROGRAM – Select Program

Select Auto Programs, default for Auto Pro Part1 is **"Program 1"**, for Auto Pro Part2 is **"Program 2"**, and for Auto Pro Part3 is **"Program 3"**.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Edit Program"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Select Program"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired Auto Program Part **("Auto Pro Part1", "Auto Pro Part2", "Auto Pro Part3")** and tap **ENTER** to confirm selection.
4. Tap **UP/DOWN** to select desired Program number **("Program 1" - "Program 10")** and tap **ENTER** to confirm selection.
5. Tap **MODE/ESC** to return to the main menu.

EDIT PROGRAM – Edit Program

Edit the internal programs.

1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Edit Program"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Edit Program"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired Program number **("Program 1" - "Program 10")** and tap **ENTER** to confirm selection.
4. Tap **UP/DOWN** to select desired test or step **("Pro. Test", "Step 01" – "Step 64")** and tap **ENTER** to confirm selection.
5. Tap **UP/DOWN** to select desired scene **("Sc001" – "Sc125")** and tap **ENTER** to confirm selection.
6. Tap **MODE/ESC** to return to the main menu.

EDIT PROGRAM – Edit Scenes

Edit the scenes of the internal programs.

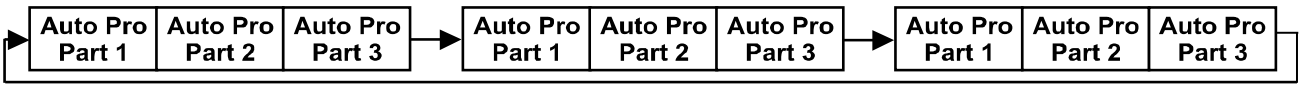
1. Tap **MODE/ESC** to access the main menu, tap **UP/DOWN/LEFT/RIGHT** until **"Edit Program"** is highlighted and tap **ENTER**.
2. Tap **UP/DOWN** until **"Edit Scenes"** is displayed and tap **ENTER**.
3. Tap **UP/DOWN** to select desired scene number **("Scene 001" - "Scene 125")** and tap **ENTER** to confirm selection.
4. Tap **UP/DOWN** to select desired function **("Strobe", "Dimmer", "Chase Effect", "Chase Speed", "Red(1-16)", "Green(1-16)", "Blue(1-16)", "White(1-16)", "Color Temp", "Color Mode", "Fade Time", "Secne Time", "Input By Out")** and tap **ENTER** to confirm selection.
5. Tap **UP/DOWN** to select desired position **("0-255")** and tap **ENTER** to confirm selection. For **"Secne Time"**, tap **UP/DOWN** to select the desired time **("00.2s" – "99.9s")** and tap **ENTER** to confirm selection.
6. Tap **MODE/ESC** to return to the main menu.

EDIT PROGRAM – Record Controller

The moving head features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

EDIT PROGRAM – Record Controller – Working With Built In Program

A Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.


Auto Pro Part 1
Auto Pro Part 2
Auto Pro Part 3
Auto Pro Part 1
Auto Pro Part 2
Auto Pro Part 3
Auto Pro Part 1
Auto Pro Part 2
Auto Pro Part 3

The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to **"Slave 1"** in the menu **"Set to Slave"**, the Master unit sends **"Auto Program Part 1"** to the Slave unit.

If set to **"Slave 2"**, the Slave unit receives **"Auto Program Part 2"**.

EDIT PROGRAM – Record Controller – Working With Built-In Program [continued]

To start an Auto Program proceed as follows:

1. Slave Setting

• Select **"Function Mode"** by turning on the encoder.

• Press the **ENTER** button to confirm.

• Select **"Set to Slave"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Turn the encoder to select **"Slave 1"**, **"Slave 2"** or **"Slave 3"**.

• Press the **ENTER** button to confirm.

• Press the **MODE/ESC** button in order to return to the main menu.

2. Automatic Program Run

• Select **"Function Mode"** by turning on the encoder.

• Press the **ENTER** button to confirm.

• Select **"Auto Program"** by turning on the encoder.

• Press the **ENTER** button to confirm.

• Turn the encoder to select **"Master"** or **"Alone"**. The selection **"Alone"** means Stand Alone-mode and **"Master"** that the device is defined as master.

• Press the **ENTER** button to confirm.

• Press the **MODE/ESC** button in order to return to the main menu.

3. Program selection for Auto Pro Part

• Select **"Edit Program"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Select **"Select Programs"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Turn the encoder to select **"Auto Pro Part 1"**, **"Auto Pro Part 2"** or **"Auto Pro Part 3"**, and thus select which Slave program is to be sent. Selection **"Part 1"** means, that the Slave unit runs the same program as the master units.

• Press the **ENTER** button to confirm.

• Press the **MODE/ESC** button in order to return to the main menu.

EDIT PROGRAM – Record Controller – Working With Built-In Program [continued]

4. Program Selection for Edit Program

• Select "**Edit Program"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Select **"Edit Program"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Turn the encoder to select the desired program. With this function you can edit specific scenes into a specific program.

• Press the **ENTER** button to confirm.

• Press the **MODE/ESC** button in order to return to the main menu.

5. Automatic Scene Recording

• Select **"Edit Program"** by turning the encoder.

• Press the **ENTER** button to confirm.

• Select **"Edit Scenes"** by turning the encoder.

• Turn the encoder to select the desired scene numbers. You can program a maximum number of 250 scenes.

• Press the **ENTER** button to confirm.

• Press the **MODE/ESC** button in order to return to the main menu.

Example:

Program 2 includes scenes: 10, 11, 12, 13

Program 4 includes scenes: 8, 9, 10

Program 6 includes scenes: 12, 13, 14, 15

Auto Pro Part 1 is Program 2

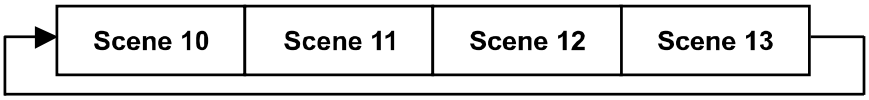
Auto Pro Part 2 is Program 3

Auto Pro Part 3 is Program 6

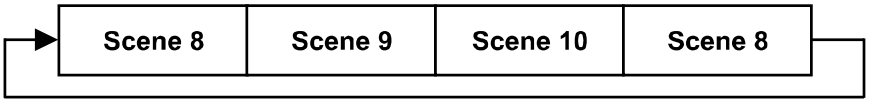
EDIT PROGRAM – Record Controller – Working With Built-In Program [continued]

The 3 Slave groups run the Auto Program in certain time segments, as shown in the following picture:

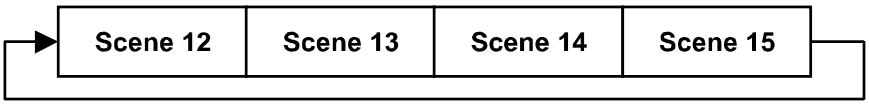
Part 1:



Part 2:

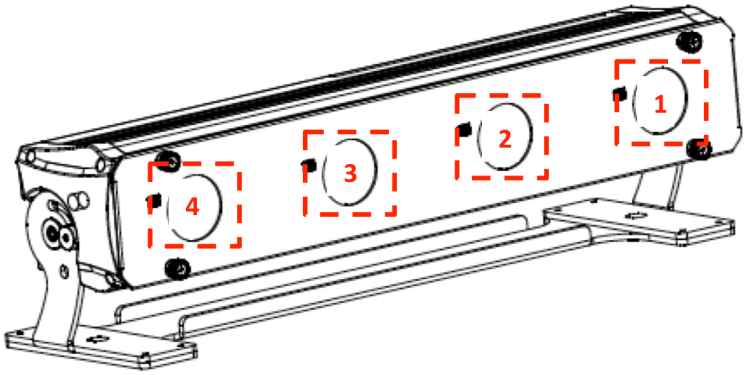


Part 3:



9. DMX CHANNEL FUNCTIONS AND VALUES

ELATION - ELAR QUAD BAR [ver 1.0]						
DMX Channel Functions / Values						
Mode/Channel					Value	Function
4	5	8	10	16		
1	1	1	1			**RED - All LEDs [1-4]**
					0-255	Red (0-Black , 255-100% Red)
2	2	2	2			**GREEN - All LEDs [1-4]**
					0-255	Green (0-Black , 255-100% Green)
3	3	3	3			**BLUE - All LEDs [1-4]**
					0-255	Blue (0-Black , 255-100% Blue)
4	4	4	4			**WHITE - All LEDs [1-4]**
					0-255	White (0-Black , 255-100% White)
				1		**RED - LED [1]**
					0-255	Red (0-Black , 255-100% Red)
				2		**GREEN - LED [1]**
					0-255	Green (0-Black , 255-100% Green)
				3		**BLUE - LED [1]**
					0-255	Blue (0-Black , 255-100% Blue)
				4		**WHITE - LED [1]**
					0-255	White (0-Black , 255-100% White)
				5		**RED - LED [2]**
					0-255	Red (0-Black , 255-100% Red)
				6		**GREEN - LED [2]**
					0-255	Green (0-Black , 255-100% Green)
				7		**BLUE - LED [2]**
					0-255	Blue (0-Black , 255-100% Blue)
				8		**WHITE - LED [2]**
					0-255	White (0-Black , 255-100% White)
				9		**RED - LED [3]**
					0-255	Red (0-Black , 255-100% Red)
				10		**GREEN - LED [3]**
					0-255	Green (0-Black , 255-100% Green)
				11		**BLUE - LED [3]**
					0-255	Blue (0-Black , 255-100% Blue)
				12		**WHITE - LED [3]**
					0-255	White (0-Black , 255-100% White)
				13		**RED - LED [4]**
					0-255	Red (0-Black , 255-100% Red)
				14		**GREEN - LED [4]**
					0-255	Green (0-Black , 255-100% Green)
				15		**BLUE - LED [4]**
					0-255	Blue (0-Black , 255-100% Blue)
				16		**WHITE - LED [4]**
					0-255	White (0-Black , 255-100% White)



ELATION - ELAR QUAD BAR [ver 1.0]						
DMX Channel Functions / Values						
Mode/Channel					Value	Function
4	5	8	10	16		
						SHUTTER, STROBE
					0-31	All LEDs OFF
					32-63	All LEDs ON
					64-95	Strobe Effect SLOW to FAST
		5	5		96-127	All LEDs ON
					128-159	Pulse Effect In Sequences
					160-191	All LEDs ON
					192-223	Random Strobe Effect SLOW to FAST
					224-255	All LEDs ON
	5	6	6			**DIMMER INTENSITY**
					0-255	Intensity 0 to 100%
						CHASE MACROS
					0-10	ALL LEDs OFF
					11-40	Chase Macro 1
					41-70	Chase Macro 2
			7		71-100	Chase Macro 3
					101-130	Chase Macro 4
					131-160	Chase Macro 5
					161-190	Chase Macro 6
					191-220	Chase Macro 7
					221-255	Chase Macro 8
			8			**CHASE SPEED**
					0-255	FAST to SLOW
						COLOR TEMPERATURE
					0-31	ALL LEDs OFF
					32-63	White 2700k
					64-95	White 3200k
		7	9		96-127	White 4300k
					128-159	White 5600k
					160-191	White 6500k
					192-223	White 8000k
					224-255	Store White Balance Enabled
						COLOR MODE
					0-63	White Balance Disabled
					64-189	White Balance Disabled
		8	10		190-219	White Balance Disabled
					220-230	White Balance Disabled
					231-254	White Balance Disabled
					255	Store a New White Balance

10. CLEANING AND MAINTENANCE

CAUTION!
Disconnect from mains before starting maintenance operation.

CLEANING

Frequent cleaning is recommended to insure proper function and an extended life.

- Clean LED lens surface weekly to avoid dust accumulation.
- Never use alcohol or solvents.

MAINTENANCE

Regular inspections are recommended to insure proper function and an extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

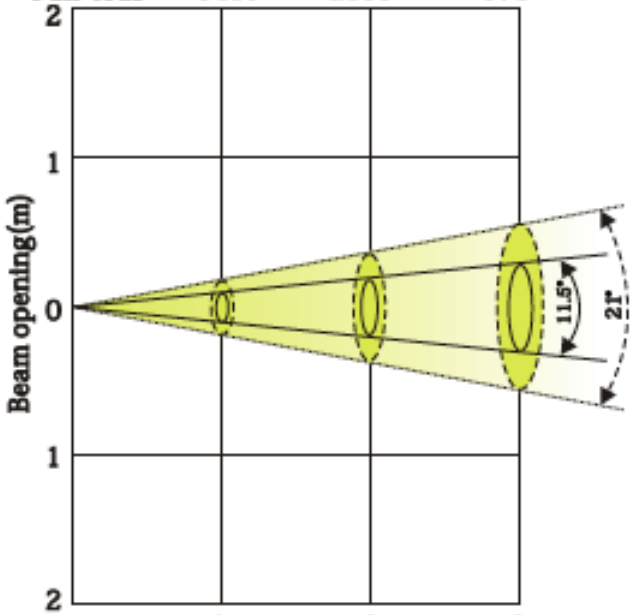
Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

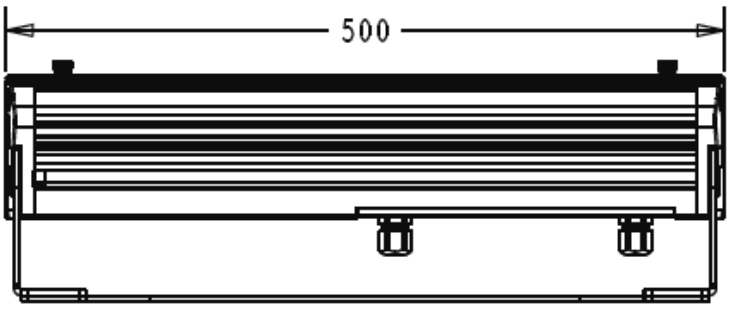
11. PHOTOMETRIC DATA

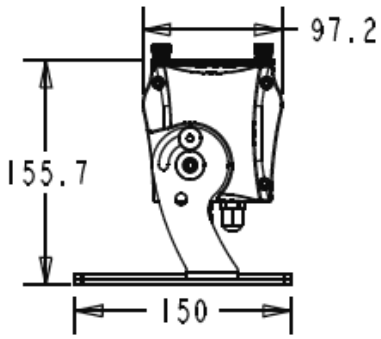
Beam angle 11.5°
Field angle 21°

Intensity LUX				
	Red leds	1810	461	220
	Green leds	3220	244	370
	Blue leds	430	111	53
	White leds	3630	930	414
	Full leds	8410	2180	971



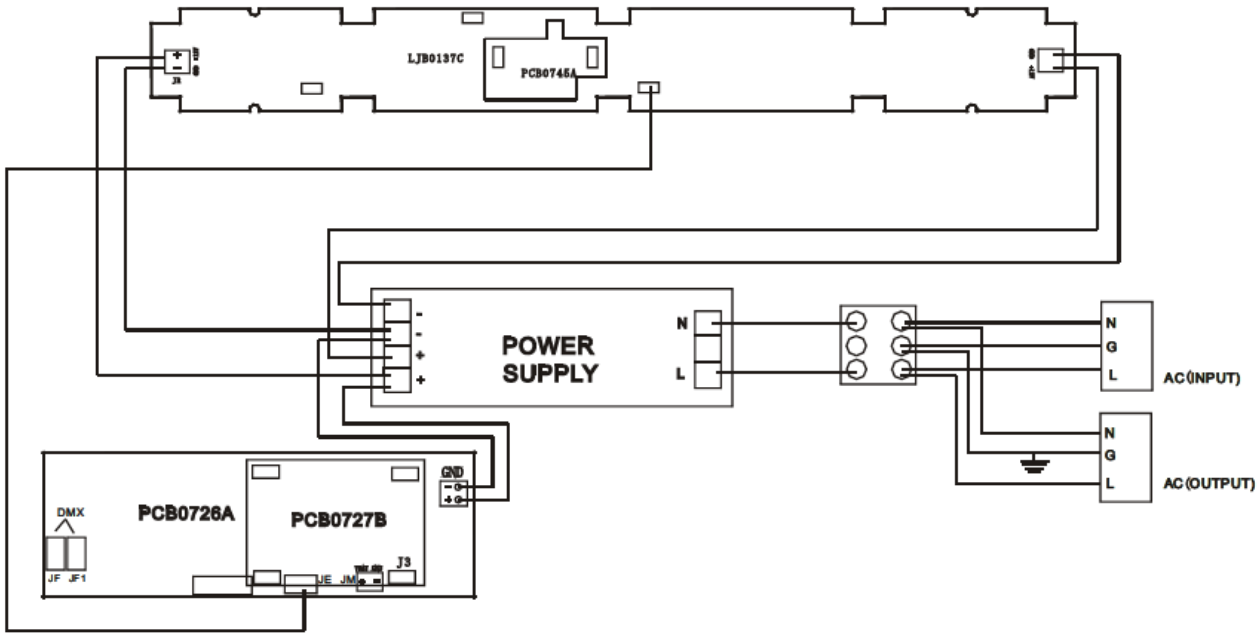
12. DIMENSIONAL DRAWINGS (millimeters)





Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

13. CIRCUIT SCHEMATIC



14. 2-YEAR LIMITED WARRANTY

A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years, (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional® shall have no liability what so ever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

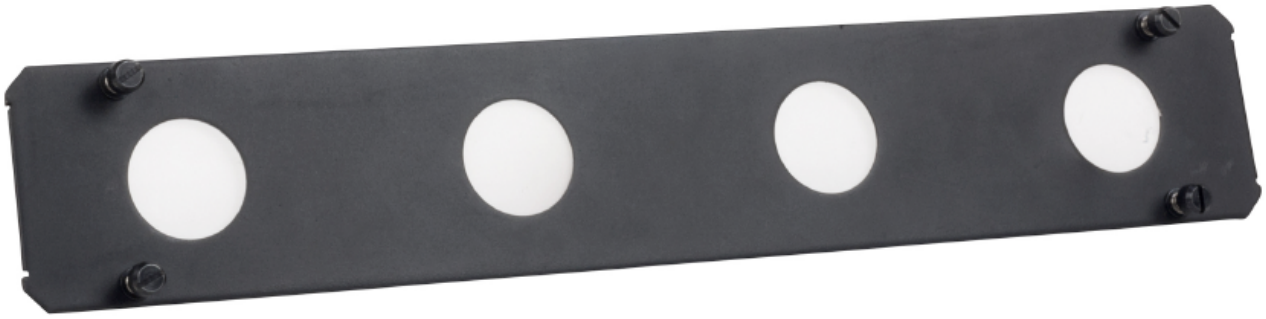
15. TECHNICAL SPECIFICATIONS

POWER SUPPLY	
Voltage Requirements	AC 100 ~240V / 50Hz~60Hz
Power Consumption	70 Watts
LIGHT SOURCE	
Type	4 x 10W CREE QUAD LEDs
Life Time	100,000 Rated Hours *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.
OPTICAL	
11.5˚Beam Angle ~ 21˚ Field Angle	
COLOR MIXING	
RGBW Additive Color Mixing, 16.7 Million Color Possibilities	
STROBE / DIMMER	
Strobe-effect with variable speed 1 - 18 flashes per second	
0-100% Dimmer	
DMX CHANELS	
4, 5, 8, 10, 16	
DMX DRIVE	
USITT DMX-512, 3-pin IP65 rated XLR; [+] = Pin 3, [-] = Pin 2, [Ground] = Pin 1. Starting DMX [001].	
SIZE and WEIGHT	
Dimensions	19.7” (L) x 5.9” (W) x 6.1” (H) 500mm (L) x 150mm (W) x 156mm (H)
Weight (net)	12 lbs. / 5.4 kgs
RATINGS	
IP Rating	IP65
Maximum Ambient Temp	45˚C / 113°F

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

16. OPTIONAL ACCESSORIES

ORDER CODE	ITEM DESCRIPTION
ELARQUAD/GFH	Gel Frame for ELAR QUAD Series



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